**BACKGROUND**

ARSA is the human homolog of the bacterial arsA, a member of the ATPase superfamily. ArsA and arsB have been postulated to form a membrane complex that functions as an anion-translocating ATPase with arsA, thereby providing the catalytic energy transducing component of the pump. ArsA hydrolyses ATP in the presence of its anionic substrate antimonite, and produces resistance to both arsenite and antimonite. The active form of arsA is a homodimer with four nucleotide binding sites, two from each monomer.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: ASNA1 (human) mapping to 19p13.2; Asna1 (mouse) mapping to 8 C3.

**SOURCE**

ARSA (H-7) is a mouse monoclonal antibody raised against amino acids 1-161 mapping at the N-terminus of arsenical pump-driving ATPase of human origin.

**PRODUCT**

Each vial contains 200 µg IgG κ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**STORAGE**

Store at 4°C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**APPLICATIONS**

ARSA (H-7) is recommended for detection of ARSA of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

ARSA (H-7) is also recommended for detection of ARSA in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for ARSA siRNA (h): sc-105093, ARSA siRNA (m): sc-141278, ARSA shRNA Plasmid (h): sc-105093-SH, ARSA shRNA Plasmid (m): sc-141278-SH, ARSA (h) Lentiviral Particles: sc-105093-V and ARSA shRNA (m) Lentiviral Particles: sc-141278-V.

Molecular Weight of ARSA: 39 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, HEK293 whole cell lysate: sc-45136 or mouse cerebellum extract: sc-2403.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:


**DATA**

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.